Baking Buddy

2.009 Mockup Review
October 16, 2008
Silver B
Need

• Problem
  – Complexity of baking from scratch

• Customer
  – Home bakers

• Target price
  – $150
Baking Buddy

**Multiple containers**
Stores ingredients in one place

**Built-in Scale**
Can measure desired amounts

**Smart Controller Interface**
Stores recipes
Controlling System

**Dispenser**
Can dispense and sift
Major Risks

1. Dispensing mechanisms
2. Accurate measurement
3. Size and usability
Risk 1: Dispensing (1 of 4)

Free Fall
Risk 1: Dispensing (2 of 4)

Auger
Risk 1: Dispensing (3 of 4)
Risk 1: Dispensing (4 of 4)

Three-layer Sifter

Rotating Wire Sifter

No Clogging
Solution: Varied Mesh Sizes

**Large Opening**
- Approx. 0.86 mm

**Medium Opening**
- Approx. 0.15 mm

**Small Opening**
- Approx. 0.06 mm
Risk 2: Accurate Measurement

Constant volume

1 rev = 1 cup

1 portion, 1/3 cup

Electronic scale

Dispenser

Smart Controller
Risk 3: Size & Usability

Baking Buddy

Coffee Maker

Weight = 8 lbs

≈

13 inch

13.75 inch

18 inch

14.25 inch
1. Dispensing small amounts
   Next step: Adjusting size of sifter and container

2. Automatically controlling mechanisms and recipe storage
   Next step: Integrating with smart controller
<table>
<thead>
<tr>
<th>Customer need</th>
<th>Product (Attributes)</th>
<th>Suggested Engineering Specification</th>
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</thead>
<tbody>
<tr>
<td>Reliable Dispensing</td>
<td>Dispensing capability</td>
<td>Dispense and sift 1 cup ingredient less than 30 sec.</td>
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<tr>
<td>Accurate measurement</td>
<td>Measuring precision</td>
<td>Has a scale that measures the weight up to 800 g ~ 8 cups</td>
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<td>Suitable size</td>
<td>Dimensions</td>
<td>Radius of 7.5 inch and 18 inch height and be fitted on the countertop</td>
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<td>Automatic &amp; Recipe Storage</td>
<td>Memory Database/On-board CPU</td>
<td>2 cups of each ingredient for one standard cake recipe</td>
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Contacts

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